



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632-9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO24453

Purchase Order Date 6/4/2014

PO Print Date 6/4/2014

Page Number 1 of 3

Order From :
AIR DYNAMICS
19420B CLARK GRAHAM AVENUE
BAIE D'URFE, QUEBEC H9X 3R8

VC-AD001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

PAID
6/4/2014

Contact Name
Vendor Phone 514-457-4287

Ship To Contact
Ship To Phone
Ship Via: Purolator ground collect
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	CB200	Acrylic Adhesive, 3.5G	6/6/2014 Yes 6/6/2014		30.00 Each	\$11.50	\$345.00
EXP DATE: STORED IN FRIDGE - APRIL 15/2015 STORED AT ROOM TEMP. EXP OCT 2014							
Line Total:							\$345.00
2	600.1012	Sealant PR1425B2 (#654 semkit)	6/27/2014 Yes 6/27/2014	FN	15.00 Each	\$59.00	\$885.00
Line Total:							\$885.00
3	600.0990	MAGNABOND 6398 PART A	6/27/2014 Yes 6/27/2014	FN	40.00 Each	\$15.00	\$600.00

Note:

6/4/2014



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Page Number 2 of 3

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Ship To : DART AEROSPACE LTD

AIR DYNAMICS
19420B CLARK GRAHAM AVENUE
BAIE D'URFE, QUEBEC H9X 3R8

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

514-457-4287

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Total: \$600.00

4 600.0991

MAGNOBOND 6398
PART B

6/27/2014 FN

40.00

\$15.00

\$600.00

Yes

Each

6/27/2014

Line Total: \$600.00

5 71400-35

#3950 EDGE SEALER
8OZ

6/6/2014

2.00

\$40.00

\$80.00

Yes

Each

6/6/2014

EXP DATE: JULY 2015

Line Total: \$80.00

Deliver To: MUFFIN

Note:

6/4/2014

**Air Dynamics**19420B Clark Graham Avenue
Baie D'Urfé, Québec H9X 3R8Tel.: (514) 457-4287
Fax: (514) 457-4143**BON DE
LIVRAISON**

PACKING SLIP 730600

CUSTOMER NO. 700

Facture à:
Invoice to:DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKSBURY ON K6A 1K7

ACCTS PAY/ DIEDRE KENNEDYExpédié à:
Ship to:

SAME

pg. 2/2

Date	Expédié par/Ship via:	F.A.B./F.O.B.	Conditions/Terms
06/06/14	PUROLATOR COLLECT		

No. de commande Purchase order no.	Date de commande Order date	Vendeur(se)/Salesperson	Notre No. de commande/Our order number
PO24453	06/05/14	BRENDA SHEA	

Qté req/ Qty req	Expédié Shipped	En souffe/ B.O.	No. d'article Item Number	Description	Prix unitaire Unit price	Prix rapporté Extended price
				certification/ msds inclus		



FOR 30506

22 AVR. 2014

CLICK BOND INC.
2151 LOCKHEED WAY
CARSON CITY, NV 89706-0713
PHONE: (775)885-8000
FAX: (775)883-0191

CERTIFICATION OF CONFORMANCE

Customer: AIR DYNAMICS COMPANY LTD

Customer PO: 030506

Customer P/N: CB200

Quantity: 100

Customer Rev Number: 0

Lot Number: 20136002-01-01

Click Bond P/N: CB200

Click Bond Cage Code: 66530

Click Bond Rev Number: 0

Adhesive Batch: 70047146

SHELF LIFE:

Room Temperature

6 Months

Exp. Date:

15-Oct-2014

Refrigerated (35-50 deg F)

1 Year

Exp. Date:

15-Apr-2015

As the authorized representative of Click Bond, Inc. the undersigned, warrants and represents: the product identified on this Certificate of Conformance has been manufactured, inspected and unless otherwise noted, conforms in all respects to the applicable customer purchase order, drawings, specifications and standards. The information appearing herein is true and accurate. This certificate may be used to induce payment with the knowledge the information and certification may be used as a basis for such payment.

If no customer specific Quality Requirement is stipulated in your purchase order, goods produced are inspected to Click Bond's Registered Quality and Environmental Systems. The systems and procedures conform to the requirements of AS9100, ISO 9001, ISO 14001 and ISO 10012.

Click Bond, Inc. certifies these goods were not manufactured with and do not contain ozone depleting substances, mercury, pure tin, pure zinc, cadmium, or radioactive material. Complete reports of physical and chemical tests and composition are on file for customer examination.

Products represented by this certificate of conformance were manufactured in the United States of America and comply with the requirements of DFARS 252.225-7009 with Alternate 1.

Where applicable, Click Bond warrants the performance of the fixtures for 10 years from the date of certification.

4/15/2014

Date of Certification


V. NEGRETE - Quality Control

Receiving Report

Date: 14/4/14

Batch No: 1129423

Supplier: Air Dynamics

Dart P/O: 24453

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC18 Inspection ☒ N/A ☒
 Work Order ☐ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

Production/Admin:

Date _____
 Received/Costing _____
 Initial _____

Location _____

H:\FORMS\Purchasing\approved purch\RECREPORT Rev F

RELEASE CERTIFICATE

AIR DYNAMICS

19420B Clark Graham Avenue
 Baie d'Urfé, Québec, H9X 3R8
 514-457-4287

NOMENCLATURE

PART NUMBER

MAKE

SERIAL NUMBER

NEW

REPAIRED

INSPECTED

OVERHAULED

MODIFIED

PREVIOUS CERTIFICATION

I HEREBY CERTIFY THAT THE AIRCRAFT PARTS, APPLIANCES AND/OR MATERIALS DESCRIBED HEREON WERE ACQUIRED FROM A SOURCE OF SUPPLY THAT IS CONSISTANT WITH THE CONDITIONS UNDER WHICH THE DEPARTMENT OF TRANSPORT DISTRIBUTOR APPROVAL NO. 12-89 HAS BEEN GRANTED.

DATE

INSPECTOR'S SIGNATURE

AD-1(A)

QTY. 30

FOIL PACK

AD 5

CLICK BOND (3.5 GM)

CB200 (3.5GM) MODEL or TYPE

CLICK BOND

(IN FRIDGE) (4/15/2015)

B# 30506 LOT# 20136002-01-01

June 6, 2014

Brenda Shen

30115

19 SEP. 2013

3M Canada Company / Compagnie 3M Canada
 CERTIFICATE OF CONFORMANCE
 =====

DEQU
AIR DYNAMICS CO. LTD.
 19420B CLARK GRAHAM AVE.
 BAIE D'URFÉ, QUÉ. H9X 3R8
 TÉL: (514) 457-4287

THIS IS TO CERTIFY THAT THE PRODUCT IDENTIFIED BELOW COMPLIES
 WITH CURRENT MANUFACTURING STANDARDS.

CUSTOMER P.O.: 030115

ORDER #: C04483-001

ITEM ID : 75347215198

ITEM DESCRIPTION : 3950 EDGE SEALER 8OZ DAUBER CANS (6/CASE)

DIMENSION/SIZE/TYPE: (6/CASE) CASE ONLY

SHIPPED QUANTITY : 1 UNIT: CASE

SHIP DATE : 09/18/2013

LOT NUMBER

MANUFACTURING DATE

EXPIRY DATE

BMA102880715

JULY 19, 2013

JULY 19, 2015

SHIPPED TO: AIR DYNAMICS CO LTD
 19420 B CLARK GRAHAM AVENUE
 BAIE D'URFEE, QC

NOTE: PRODUCT RETAINED 92% SHELF LIFE AT TIME OF SHIPMENT.

3M Canada Company / Compagnie 3M Canada
 P.O. Box 5757, LONDON, ONT N6A 4T1
 DATE : 09/20/2013

IMPORTANT NOTICE TO PURCHASER: THE FOLLOWING IS MADE IN LIEU OF ALL EXPRESS
 OR IMPLIED RIGHTS, WARRANTIES AND CONDITIONS, STATUTORY OR OTHERWISE:
 SELLERS AND MANUFACTURERS ONLY OBLIGATION SHALL BE TO REPLACE SUCH QUANTITY
 OF THE PRODUCT PROVED TO BE DEFECTIVE. NEITHER SELLER NOR MANUFACTURER SHALL
 BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL ARISING OUT
 OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. BEFORE USING, USER SHALL
 DETERMINE THE SUITABILITY OF THE PRODUCT FOR HIS INTENDED USE, AND THE USER
 ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.
 THE FOREGOING MAY NOT BE ALTERED EXCEPT BY AN AGREEMENT SIGNED BY THE OFFICERS
 OF SELLER AND MANUFACTURER.

Click Bond - CB200 Adhesive - WHMIS Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CB200
CLICK BOND, INC.
2151 LOCKHEED WAY
CARSON CITY, NV 89706

Product Use/Class: ADHESIVE
INFORMATION TELEPHONE #: (775) 885-8000
EMERGENCY TELEPHONE #: (800) 255-3924 (CHEM•TEL)
OUTSIDE NORTH AMERICA #: (813) 248-0585 CALL COLLECT
PREPARED BY: Engineering Dept. (775) 885-8000

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Chemical Name	CAS Number	Range	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-Ceiling	Skin
B	Methyl methacrylate	80-62-6	43 - 49%	50 ppm	100 ppm	410 mg/m ³ 100 ppm	N.E.	N.A.
B	Methacrylic acid	79-41-4	4 - 9%	20 ppm	N.E.	N.E.	N.E.	N.A.
B	Methacrylate phosphate ester	52628-03-2	0 - 5%	N.E.	N.E.	N.E.	N.E.	N.A.
B	N,N-Dimethylaniline	121-69-7	0 - 5%	5 ppm	10 ppm	25 mg/m ³ 5 ppm	N.E.	S
B	Zinc compound	1314-13-2	0 - 5%	2 mg/m ³	10 mg/m ³	5 mg/m ³	N.E.	N.A.
B	Calcium molybdate	7789-82-4	0 - 5%	3 mg/m ³	N.E.	5 mg/m ³	N.E.	N.A.
B	Amine curative	38668-48-3	0 - 5%	N.E.	N.E.	N.E.	N.E.	N.A.
A	Epoxy resin	25068-38-6	5 - 6%	N.E.	N.E.	N.E.	N.E.	N.A.
A	Isodecyl benzoate	131298-44-7	2 - 4%	N.E.	N.E.	N.E.	N.E.	N.A.
A	Benzoyl peroxide	94-36-0	2 - 4%	5 mg/m ³	N.E.	5 mg/m ³	N.E.	N.A.
A	Titanium dioxide	13463-67-7	0 - 1%	10 mg/m ³	N.E.	15 mg/m ³	N.E.	N.A.

N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

3. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: Off-white Liquid, with Sweet odor (Component B) and White Paste, with No odor (Component A). Flammable liquid. Harmful if absorbed through skin. May cause allergic skin reaction. Causes skin and eye irritation. Causes respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May be absorbed through the skin in harmful amounts. Causes skin irritation. May cause skin sensitization. May cause dermatitis. May cause allergic skin reaction.

EFFECTS OF OVEREXPOSURE - INHALATION: Causes respiratory tract irritation. May cause headache and nausea.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause liver or kidney damage. Chronic skin contact may cause dermatitis. Prolonged or repeated contact may result in dermatitis.

IARC has designated titanium dioxide (TiO₂) as Group 2B - possibly carcinogenic to humans in dust form. However, a number of long term animal studies and human epidemiology studies evaluating TiO₂ and workplace exposure show insufficient evidence for carcinogenic affects. EPA, NTP and OSHA do not designate TiO₂ as a carcinogen and ACGIH designates TiO₂ as A4 - not classifiable as a human carcinogen. TiO₂ is not present in this product as a dust and no airborne exposure is expected during application.

Contains N,N-Dimethylaniline. Excessive overexposure by skin absorption or ingestion may result in anoxia due to the formation of methemoglobin. This condition impairs the blood's ability to transport oxygen. ACGIH considers molybdenum to be an A3 carcinogen (confirmed animal carcinogen with unknown relevance in humans).

PRIMARY ROUTE (S) OF ENTRY: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

4. FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

FIRST AID - SKIN CONTACT: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. Give victim one or two glasses of water or milk. Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

5. FIRE-FIGHTING MEASURES

Component A:

FLASH POINT: 201°F, 93°C (Setaflash Closed Cup)

AUTOIGNITION TEMPERATURE: N.D.

LOWER EXPLOSIVE LIMIT (%): Not Applicable

UPPER EXPLOSIVE LIMIT (%): Not Applicable

Component B:

FLASH POINT: 65°F, 18°C (Setaflash Closed Cup)

AUTOIGNITION TEMPERATURE: N.D.

LOWER EXPLOSIVE LIMIT (%): 1% (V)

UPPER EXPLOSIVE LIMIT (%): 8.8% (V)

Components A and B:

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid and vapor. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep non-essential personnel a safe distance away from the spill area. Remove all sources of ignition (flame, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Use self-contained breathing equipment. Notify appropriate authorities if necessary. Avoid contact. Using non-sparking tools, scoop the spilled material into an appropriate container for proper disposal. (If necessary, use inert absorbent material to aid in containing the spill.)

7. HANDLING AND STORAGE

HANDLING: Keep closure tight and container upright to prevent leakage. Ground and bond containers when transferring material. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapor or spray mists. Do not handle until all safety precautions have been read and understood. Use with adequate ventilation. Because empty containers may retain product residue and flammable vapors, keep away from heat, sparks, and flame; do not cut, puncture, or weld on or near the empty container. Empty containers should not be re-used. Do not smoke where this product is used or stored.

STORAGE: Refer to OSHA 29CFR Part 1910.106 "Flammable and Combustible Liquids" for specific storage requirements. Store only in well-ventilated areas. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/air mixtures from accumulating.

RESPIRATORY PROTECTION: Contains a small amount of dimethylaniline (DMA) which has poor odor-warning properties. If the exposure limit for DMA is exceeded, an air-supplied respirator is recommended. Otherwise, a properly-fitted NIOSH approved air-purifying organic vapor respirator is recommended. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

SKIN PROTECTION: Use neoprene, nitrile, or rubber gloves to prevent skin contact. If contact with the product is prolonged or repeated, Silver Shield or Butyl rubber gloves are recommended.

EYE PROTECTION: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Component A:

DENSITY, LB/GL	: 10.00 lb/gal	VOLATILE BY WEIGHT	: 5.98%	APPEARANCE	: White
VAPOR PRESSURE	: N.D.	VOLATILE BY VOLUME	: 7.45%	PHYSICAL STATE	: Paste
VAPOR DENSITY	: Heavier than Air	BOILING RANGE	: 100°C	ODOR	: No
SOLUBILITY IN H ₂ O	: Insoluble	FREEZE POINT	: N.D.	ODOR THRESHOLD	: N.D.
EVAPORATION RATE	: Not Applicable			pH	: N.A.
COEFFICIENT OF WATER/OIL DISTRIBUTION	: N.D.				(see section 16 for abbreviation legend)

Component B:

DENSITY, LB/GL	: 8.69 lb/gal	VOLATILE BY WEIGHT	: 0.0%	APPEARANCE	: Off-white
VAPOR PRESSURE	: N.D.	VOLATILE BY VOLUME	: 0.0%	PHYSICAL STATE	: Liquid
VAPOR DENSITY	: Heavier than Air	BOILING RANGE	: 101 - 193°C	ODOR	: Sweet
SOLUBILITY IN H ₂ O	: Insoluble	FREEZE POINT	: N.D.	ODOR THRESHOLD	: N.D.
EVAPORATION RATE	: Faster than n-butyl-acetate			pH	: N.A.
COEFFICIENT OF WATER/OIL DISTRIBUTION	: N.D.				(see section 16 for abbreviation legend)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Storage above 100°F and below 32°F. Exposure to sunlight, ultraviolet light irradiation. Avoid dropping or puncture of containers. High temperatures.

INCOMPATIBILITY: Inorganic acids, organic acids, caustics, oxidizing agents, amines, peroxides, water, hydroxyl, or active hydrogen compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, oxides of nitrogen, aldehydes.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

STABILITY: Product is stable under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

PRODUCT LD50 (ORAL): No data

PRODUCT LD50 (DERMAL): No data

PRODUCT LC50: No data

COMPONENT TOXICOLOGICAL INFORMATION

<u>Component</u>	<u>Chemical Name</u>	<u>LD50</u>	<u>LC50</u>	<u>LD50 (Dermal)</u>
B	Methyl methacrylate	7872 mg/kg rat	7800 mg/m ³ 4 h rat	>5 gm/kg rabbit
B	Methacrylic acid	1060 mg/kg rat	No Information	500 mg/kg rabbit
B	Methacrylate phosphate ester	No Information	No Information	No Information
B	N,N-Dimethylaniline	No Information	No Information	1770 ul/kg rabbit
B	Zinc compound	7950 mg/kg mouse	No Information	No Information
B	Calcium molybdate	No Information	No Information	No Information
B	Amine curative	No Information	No Information	No Information
A	Epoxy resin	No Information	No Information	No Information
A	Isodecyl benzoate	>5000 mg/kg rat	No Information	No Information
A	Benzoyl peroxide	7710 mg/kg rat	No Information	>1 gm/kg mammal
A	Titanium dioxide	No Information	No Information	No Information

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), state, and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

14. TRANSPORTATION INFORMATION

General: CB200 may be shipped as a 2 component acrylic adhesive kit under UN 3269 POLYESTER RESIN KIT.

Component A:

DOT PROPER SHIPPING NAME: Organic peroxide type E, solid
PACKING GROUP: II
EMERGENCY RESPONSE GUIDE NUMBER: 145

DOT UN/NA NUMBER: 3108
DOT HAZARD CLASS: 5.2
SECONDARY HAZARD: None

Component B:

DOT PROPER SHIPPING NAME: Adhesives
PACKING GROUP: II
EMERGENCY RESPONSE GUIDE NUMBER: 128

DOT UN/NA NUMBER: 1133
DOT HAZARD CLASS: 3
SECONDARY HAZARD: None

The listed transportation classification applies to US DOT non-bulk road shipments. It does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors. For the most accurate shipping information, refer to your transportation/compliance department.

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CEPA STATUS: All components of this formula are listed on the Canadian DSL list.

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D1A, D2B

16. OTHER INFORMATION

HMIS RATINGS - HEALTH: 2* **FLAMMABILITY:** 3 **PHYSICAL HAZARD:** 2

* - indicates a chronic hazard; see section 3

VOLATILE ORGANIC COMPOUNDS

Calculated 0.0 lbs/gal, 0.0 grams/liter

NOTE: In normal use, the acrylate monomer in this product is considered to be non-volatile and is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC emitted is less than 5%. Actual emissions are a function of processing conditions. VOC is evaluated in combination with CB200 component A.

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

3M Canada Company

1840 Oxford Street East, Post Office Box-5757

London, Ontario N6A 4T1

Medical Emergency Telephone: (519) 451-2500, Ext. 2222

Transportation Emergency Telephone (CANUTEC): (613) 996-6666

Material Safety Data Sheet

Document id : 10-0286-4 Issue date : 2012/10/23
Version : 13.00 Supersedes date : 2009/10/20

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Prepared by: Corporate Regulatory Services, 3M Canada Company
Telephone: (800) 364-3577, Fax: (800) 603-7758, Web Site: www.3M.ca

1 Chemical Product and Company Identification

Tradename:

SCOTCHCAL BRAND EDGE SEALER 3950

Product ID:

75-5239-5001-4 75-3455-7162-6 75-3469-0258-0 75-3472-0274-1
75-3472-1519-8

Intended Use of Product:

Edge Sealer for Screen Printing Ink

Division:

COMMERCIAL GRAPHICS

2 Hazards Identification

Critical Hazards:

Flammable liquid and vapour.

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

May be absorbed following inhalation and cause target organ effects.

May be absorbed following ingestion and cause target organ effects.

WARNING: Contains a chemical which can cause cancer. (CAS

100-41-4) (IARC possible human carcinogen 2B)

High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

TOLUENE (108-88-3): can cause birth defects or other reproductive

harm.

See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
MODIFIED ACRYLIC RESIN	Trade Secret	40 - 50
XYLENE	1330-20-7	40 - 50
ETHYLBENZENE	100-41-4	10 - 15
TOLUENE	108-88-3	0.1 - 1.0

NOTE:

MODIFIED ACRYLIC RESIN is a Trade Secret material which is not controlled according to WHMIS criteria.

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

4 First Aid Measures

Instructions for Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water for at least 20 minutes or until chemical is removed. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Get medical attention.

5 Fire Fighting Measures

Flash point: 25.0 C TCC

Lower Explosive Limit (%): 1 %

Upper Explosive Limit (%): 7 %

Autoignition temperature: ≥ 432.2 C

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and

explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

Carbon Monoxide;

Carbon Dioxide;

Unusual Fire and Explosion Hazards

Flammable liquid and vapour.

Fire Fighting Procedures:

Wear full protective equipment--(Bunker Gear) and a self-contained breathing apparatus (SCBA). Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

NFPA: Health	1
NFPA: Fire	3
NFPA: Reactivity	0
NFPA: Unusual Reaction Hazard	

none

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

6 Accidental Release Measures

Personal Precautions:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

Environmental Procedures

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for cleaning up

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line

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(1-800-364-3577) for more information on handling and managing the spill. Contain spill. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Seal the container.

Spill Response:

Refer to other sections of this MSDS for information regarding

physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Store away from heat;

Store out of direct sunlight.

Store away from acids;

Store away from oxidizing agents.

Ventilation:

Keep container in well-ventilated area.

Fire Prevention:

Ground containers securely when transferring contents. Wear low static or properly grounded shoes.

Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Static Prevention:

Avoid static discharge.

Use Instructions:

For industrial or professional use only. Avoid contact with oxidizing agents. Keep container tightly closed.

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8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact.

The following should be worn alone or in combination, as appropriate, to prevent eye contact:

Indirect vented goggles;

Hand Protection:

Wear appropriate gloves when handling this material.

The following glove material(s) are recommended:

polyvinyl alcohol;

polyethylene/ethylene vinyl alcohol;

Skin Protection:

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half facepiece or fullface air-purifying respirator with organic vapour cartridges.

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Recommended Ventilation:

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

Provide appropriate local exhaust ventilation at transfer points.

Provide appropriate local exhaust ventilation on open containers.

Ingredient Exposure Data

MODIFIED ACRYLIC RESIN (Trade Secret)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

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LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

XYLENE (1330-20-7)

LD50 (rat, oral)

3523 mg/kg

LD50 (dermal, rabbit)

> 1700 mg/kg

LC50 (rat, inhalation/4 hours)

5000 ppm

Exposure Limits

ACGIH: TWA 100 ppm (Table A4)

ACGIH: TWA 434 mg/m3 (Table A4)

ACGIH: STEL 150 ppm (Table A4)

ACGIH: STEL 651 mg/m3 (Table A4)

CMRG: TWA 50 ppm

CMRG: STEL 75 ppm

150 ppm ACGIH: STEL 100 ppm ACGIH: TWA 75 ppm CMRG: STEL 50

ppm CMRG: TWA

ETHYLBENZENE (100-41-4)

LD50 (rat, oral)

3500 mg/kg

LD50 (dermal, rabbit)

17800 uL/kg

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

ACGIH: TWA 20 ppm (Table A3)

CMRG: TWA 25 ppm

CMRG: STEL 75 ppm

TOLUENE (108-88-3)

LD50 (rat, oral)

636 mg/kg

LD50 (dermal, rabbit)

14100 uL/kg

LC50 (rat, inhalation/4 hours)

LC50 (female rat, inhalation/4 hours vapour):
19.0 mg/l

Exposure Limits

ACGIH: TWA 20 ppm (Table A4)

CMRG: STEL 75 ppm (Skin contact contributes to exposure)

9. Physical and Chemical Properties

Physical form, Color, Odour:	Liquid; Clear; solvent odour;
Odour Threshold:	No data available.
pH:	Not applicable.
Boiling point/boiling range:	>= 136.1 C
Melting point/melting range:	Not applicable.
Vapour pressure:	<= 7.1 mmHg at 20 C
Water Solubility:	Negligible
Partition coefficient (K o/w):	Not Available
Specific gravity:	0.970 Water=1 ASTM
Vapour density:	>= 1 Air=1
Volatile organic compounds:	<= 525 gms/liter

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Evaporation rate:	<= 1 BuOAc=1
Viscosity:	300 - 500 centipoise ASTM
Percent Volatile:	50 - 60 % by weight

10 Stability and Reactivity

Conditions to Avoid:

- Store away from heat;
- Store out of direct sunlight.

Materials to Avoid:

- Store away from acids;
- Strong oxidizing agents;

Hazardous Decomposition:

- Carbon Monoxide;
- Carbon Dioxide;

Stability and Reactivity:

- Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

- Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Effects from Skin Contact:

- Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Effects from Inhalation:

- Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
- May be absorbed following inhalation and cause target organ effects.

Effects from Ingestion:

- Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
- May be absorbed following ingestion and cause target organ effects.

Sensitization Information:

- No data available.

Carcinogenicity:

- WARNING: Contains a chemical which can cause cancer. (CAS

100-41-4) (IARC possible human carcinogen 2B)

Mutagenicity:

No data available.

Reproductive Effects:

High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

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TOLUENE (108-88-3): can cause birth defects or other reproductive harm.

Component Based Information:

No data available.

Product Based Information:

No data available.

Other Effects & Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

A conservative assessment indicates this product presents a low environmental risk because use and disposal are unlikely to result in the significant release of components to the environment. The following statements have been assigned based on the estimated environmental distribution as a result of product use. Additional information may be available but was not included for environmental compartments unlikely to be significantly affected.

Other Effects and Information:

Take precautions to prevent direct release of this product to the environment. Product usages, or other lifecycle stages, are expected to release volatile organic compounds (VOCs) to the atmosphere. Regulations may restrict the release of VOCs because they contribute to the formation of ozone and smog. Regulatory definitions for VOC vary. Because of smog and other impacts, releases through evaporation or other means should be minimized to the extent possible.

13 Disposal Considerations

Product as Sold:

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 Transport Information

Transportation of Dangerous Goods

TDG Classification:

Consumer Commodity

Special Information:: Contact 3M for more information.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

15 Regulatory Information

WHMIS Classification:

B2, D2A, D2B

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

TSCA - Toxic Substances Control Act (USA)

AICS - Australian Inventory of Chemical Substances

DSL - Domestic Substances List (Canada)

EINECS - European Inventory of Existing Commercial Chemical Substances

KECI - Korean Existing Chemicals Inventory
CICS - Chinese Inventory of Chemical Substances

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Added product id(s) to the MSDS;

Section 2 - Hazards Identification - Critical Hazards;

Section 6 - Accidental Release Measures;

Section 8 - Exposure Controls/Personal Protection;

Section 11 - Toxicological Information;

Section 15 - Regulatory Information: Product Certifications

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

---End---